

Before the  
**FEDERAL COMMUNICATIONS COMMISSION**  
Washington, D.C. 20554

In the Matter of	)	
	)	
Advanced Television Systems	)	
and Their Impact upon the	)	MB Docket No. 87-268
Existing Television Broadcast	)	
Service	)	
	)	

**PETITION FOR RECONSIDERATION OF  
COMMUNITY TELEVISION OF SOUTHERN CALIFORNIA**

Community Television of Southern California (“CTSC”), licensee of non-commercial, educational public television Station KCET, Los Angeles, California, hereby requests that the Commission reconsider its decision in the above-captioned proceeding denying CTSC’s request to change the facilities specified for Station KCET in the DTV Table of Allotments<sup>1</sup> and grant CTSC authority to operate Station KCET on DTV Channel 28 post-transition with its existing Andrew Model 35E4 antenna (FCC Antenna ID No. 17555) at its current HAAT, 926 m, and with sufficient ERP to replicate its current NTSC service area. As explained below, the facilities specified in the DTV Table of Allotments would force CTSC to chose between operating post-transition with facilities that would serve only a fraction of KCET’s current NTSC and DTV population or incurring the substantial cost to acquire and install a custom designed antenna. Neither would serve the public interest, nor is either necessary, as CTSC can operate Station

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<sup>1</sup> *In re Advanced Television Systems and Their Impact Upon the Existing Television Broadcast Service*, Seventh Report and Order and Eighth Further Notice of Proposed Rule Making, MB Docket No. 87-268, FCC 07-138, Appendix B (rel. Aug. 6, 2007) (“*7<sup>th</sup> Report and Order*”).

KCET post-transition using the facilities proposed in this Petition without causing impermissible interference to any other television station. In fact, the proposed facility will cause 1.8% less interference than KCET's Appendix B facility to the critical Santa Barbara FCD27 allotment.

### **Background**

Station KCET, which operates its NTSC facility on Channel 28, received an out-of-core transitional DTV assignment on Channel 59. CTSC has always intended to return to Channel 28 after the DTV transition, both because of its identification in the community as Channel 28 and because it would be able to continue using its existing Andrew Model 35E4 antenna, thereby saving the cost of a new antenna — a very important consideration for a public broadcaster like CTSC.<sup>2</sup>

During the channel selection process, CTSC indicated that it would maximize its facilities<sup>3</sup> and specified Channel 28 as its post-transition channel.<sup>4</sup> The Commission subsequently disapproved CTSC's election of Channel 28 with maximized facilities, citing interference caused to Station KEYT-DT, Channel 27, Santa Barbara, CA. Ultimately, CTSC elected to replicate its existing facilities on Channel 28 in order to retain the channel rather than risk being forced to accept a less desirable allotment.<sup>5</sup>

When the Commission released its 7<sup>th</sup> *Further Notice*, it granted CTSC's request to operate on Channel 28 post-transition, but specified the use of Station KCET's Channel 59

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<sup>2</sup> CTSC estimates that a new antenna conforming to the Appendix B pattern would cost between \$200,000 and \$500,000.

<sup>3</sup> FCC File No. BCERET-20041105ADB, filed Nov. 5, 2004, referencing FCC File No. BMPEDT-20000428ADF.

<sup>4</sup> FCC File No. BFREET-20050121ALB, filed Jan. 21, 2005.

<sup>5</sup> FCC File No. BFR CET-20050815ABG, amended Sept. 19, 2005. *See also* Letter dated October 7, 2005 from Maureen Jeffreys, Esq., Counsel for CTSC, to Ms. Marlene Dortch, Secretary, FCC.

antenna pattern, modified for use on Channel 28.<sup>6</sup> However, as indicated in the attached Engineering Statement of Hammett & Edison, Inc., Consulting Engineers (“Engineering Statement”), that antenna has a very different pattern than CTSC’s existing Channel 28 Andrew antenna. In fact, the Channel 59 antenna has a lobe oriented toward Santa Barbara while the Andrew antenna has a null in that direction.

CTSC filed Comments in response to the 7<sup>th</sup> *Further Notice* in which it sought maximized facilities on Channel 28, and submitted an engineering analysis demonstrating that operation with its proposed maximized facilities would not cause unacceptable interference to Station KEYT-DT. At the time, CTSC did not realize that the Commission had specified the modified Channel 59 antenna and did not expressly note that the proposed DTV Table specified the wrong antenna. CTSC’s engineering analysis was performed using the Channel 28 Andrew antenna, which CTSC has always intended to use for its post-transition facility, not the modified Channel 59 antenna pattern.<sup>7</sup> The Commission denied CTSC’s request on the grounds that, based on the modified Channel 59 antenna, CTSC’s proposal would cause interference to Station KEYT-DT.<sup>8</sup>

On review of Commission’s decision, CTSC realized that its request for modifications to the Table of Allotments had been based on its Channel 28 Andrew antenna whereas the Commission’s analysis had been based on the modified Channel 59 antenna.<sup>9</sup> CTSC also

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<sup>6</sup> See 7<sup>th</sup> *Further Notice*, Exhibit B at 59. Exhibit B specified that Station KCET should operate with an ERP of 107 kW.

<sup>7</sup> *In re Advanced Television Sys. & Their Impact Upon the Existing Television Broad. Serv.*, MB Docket No. 87-268, Comments of Community Television of Southern California (filed Jan. 25, 2007).

<sup>8</sup> See 7<sup>th</sup> *Report and Order*, ¶ 135.

<sup>9</sup> CTSC also realized that the use of the different antennas explained why the Commission found that its proposed maximized facilities would cause interference to Station KEYT-DT,

Footnote continued on next page

realized that, unless the DTV Table of Allotments is modified, the Commission's freeze on filing television applications would preclude it from replicating Station KCET's current NTSC or DTV service areas unless it were to purchase a custom-built antenna to replicate, on Channel 28, the pattern of Station KCET's current Channel 59 DTV antenna. However, requiring CTSC to purchase a new antenna would force it to divert extremely limited financial resources from programming and other services to its community, to the detriment of its public broadcasting mission. Moreover, there is no assurance that such an antenna could be designed, constructed, tested, delivered, and installed by the transition deadline, or that the tower could support it.

Since Station KCET can operate post-transition with its current Andrew antenna without causing impermissible interference to others, CTSC urges the Commission to reconsider its action in the 7<sup>th</sup> *Report and Order* and modify the DTV Table of Allotments to allow Station KCET to replicate its NTSC service area using its current Andrew antenna.

**The Commission Should Modify Its DTV Table of Allotments  
to Allow Station KCET(DT) to Replicate its NTSC Service Area**

As demonstrated above, CTSC's intention to operate on Channel 28 post-transition using its current Channel 28 antenna was not effectively communicated to the Commission, and the Commission, referencing Station KCET's Channel 59 DTV facilities, specified a modified Channel 59 antenna in the Table of Allotments. Since the antenna patterns of the two antennas

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Footnote continued from previous page  
while CTSC's engineering analysis did not. CTSC currently has pending a Petition for Reconsideration of the Commission's May 18, 2007 Extension Order denying its request for an extension of its maximization construction permit. *In re DTV Build-Out: Applications Requesting Extension of the Digital Television Construction Deadline*, Petition for Reconsideration of Community Television of Southern California, File No. BEPEDT-20060123AFG (June 18, 2007). CTSC may supplement that Petition in light of this new understanding concerning the antenna to be used and the instant Petition, pending further interference analysis.

differ significantly, the freeze on filing television applications will severely limit the area Station KCET can serve if it attempts to use the Andrew antenna. As the Engineering Statement demonstrates, Station KCET would be required to operate with an ERP of 0.8 kW and, due to massive interference from the Channel 29 allotment in Ontario, California, Station KCET would serve only 820,456 viewers with interference-free service,<sup>10</sup> compared to the more than 12.6 million with its NTSC facility and its existing Channel 59 DTV facility.<sup>11</sup> The reduced facility would not even provide city-grade coverage to all of Los Angeles, and thus would prevent KCET from serving many of its existing low income, ethnically diverse viewers who can only receive KCET's educational programming by way of over the air broadcast.<sup>12</sup> This huge loss of viewers at the DTV transition deadline also would be economically devastating for CTSC.

That result, which would be directly contrary to the public interest, is entirely unnecessary. As shown by the attached Engineering Statement, Station KCET operating at an ERP of 107 kW will provide coverage that replicates the service area of KCET's Channel 28 NTSC facility without causing impermissible interference to any other station.<sup>13</sup>

During the channel election process, stations choosing a post-transition channel other than their transition DTV channel were granted the elected facilities if the facilities would cause no more than 0.1% new interference to other stations.<sup>14</sup> In the 7<sup>th</sup> *Report and Order*, the Commission granted proposed changes to Appendix B if they did not create new post-transition

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<sup>10</sup> See Exhibit A at 1 and Figs. 1A, 1B.

<sup>11</sup> See *In re Advanced Television Systems and Their Impact Upon the Existing Television Broadcast Service*, Memorandum Opinion and Order on Reconsideration of the Sixth Report and Order, 13 FCC Rcd. 7418, Appendix B, p. B-5 (1998)

<sup>12</sup> See Exhibit A at 1 and Figs. 1A, 1B.

<sup>13</sup> *Id.* at 1–3 and Figs. 4A–4F, 5A–5F.

<sup>14</sup> 7<sup>th</sup> *Report and Order* at ¶ 19 and n.39.

interference to a TCD of more than 0.1%.<sup>15</sup> For stations with only one in-core channel returning to their in-core NTSC channels, the Commission decided that a 2.0% new interference limit was appropriate to allow these stations to replicate their existing coverage.<sup>16</sup> Because KCET has only one in-core channel, it is entitled to use the alternative 2% new interference standard for replication facilities on Channel 28.

The replication facility proposed here by CTSC meets both criteria. It will cause no more than 0.55% interference to any station.<sup>17</sup> Furthermore, the proposed facility will not cause more than 0.1% new interference to any other DTV station. In fact, it is predicted to cause 1.8% less interference than KCET's Appendix B facility is predicted to cause to the critical Santa Barbara FCD27 allotment, and 0.4% less to the Ontario, California FCD29 allotment.<sup>18</sup> Thus, allowing Station KCET to operate as proposed here is fully consistent with the Commission's allocation rules for post-transition operation.

Further, grant of this Petition will manifestly serve the public interest. It will assure that Station KCET, one of the leading public television stations in the nation providing both substantial amounts of local programming to the Los Angeles community and national public television programming distributed by PBS, will be able to continue serving the Los Angeles community as it has for more than 40 years. In so doing, the Commission will also further its

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<sup>15</sup> 7<sup>th</sup> Report and Order at ¶ 26.

<sup>16</sup> *Id.* at ¶ 20; see also *DTV Channel Election: First Round Conflict Decision Extension and Guidelines for Interference Conflict Analysis*, Public Notice, DA 05-2233, 2–3 (August 2, 2005) (“the staff intends to approve such in-core elections [i.e., by stations with only one in-core channel] if they do not cause more than 2.0% additional interference to other stations (based on their DTV replication facilities, not their maximized facilities)”).

<sup>17</sup> Using higher-resolution 1 km x 1 km cells for the analysis, the predicted interference is 0.37%. See Exhibit A at 1.

<sup>18</sup> See Exhibit A at 1–3 and Figs. 4A–4F, 5A–5F.

own goals for the DTV transition by assuring “that the final channel allotments accommodate replicated and maximized serves areas for those stations certifying their intent to serve such areas.”<sup>19</sup>

Without the relief sought here, CTSC would be forced to accept inferior and inadequate coverage mandated by the freeze or to incur the substantial costs of purchasing a new antenna that would provide the pattern specified in Appendix B. Imposing this cost, estimated to be between \$200,000 and \$500,000, would severely tax CTSC’s already-strained budget for the DTV conversion as well as its general operating funds — with no corresponding public benefit. As is the case for many public television licensees, CTSC is facing serious financial difficulties, requiring it to cut back on staff and undertake other economies. Diverting funds to acquire a unique antenna will materially aggravate that problem and potentially adversely affect CTSC’s ability to continue offering the range and variety of services currently enjoyed by its audience.

Further, there is no assurance that such an antenna could be designed, constructed, tested, delivered, and installed by the statutory transition deadline, or that the tower could support it in addition to the existing Channel 28 and Channel 59 antennas. Since Station KCET’s current digital channel is out-of-core, it would not have the option, which the Commission has proposed giving stations with in-core pre-transition channels, to remain on its pre-transition channel after February 17, 2009.<sup>20</sup> Therefore, denying this request could potentially force Station KCET to

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<sup>19</sup> *In re Advanced Television Systems and Their Impact Upon the Existing Television Broadcast Service*, Second Periodic Report and Order, MB Docket No. 03-15, 19 FCC Rcd. 18279, 18291 ¶ 31 (2004).

<sup>20</sup> *See In re Third Periodic Review of the Commission’s Rules and Policies Affecting the Conversion to Digital Television*, Notice of Proposed Rulemaking, MB Docket No. 07-91, ¶ 90 (rel. May 18, 2007).

operate with an ERP of 800 watts post-transition while it awaits delivery of a new, custom antenna.

There is a compelling public interest benefit in such a result. Station KCET can serve its current NTSC service area with a post-transition facility using the existing Channel 28 Andrew 35E4 antenna without causing impermissible interference to any station and without incurring the burdensome cost of a custom antenna. Accordingly, CTSC respectfully requests that the Commission grant this petition and change Appendix B to specify post-transition operation for Station KCET on Channel 28 with 107 kW ERP using the existing Andrew Model 35E4 antenna, Antenna ID No. 17555, at a HAAT of 926 m. Granting CTSC's request will serve the public interest by permitting viewers in the expanding Los Angeles metropolitan area to continue receiving Station KCET's free, over-the-air, high-quality public television programming and services without causing impermissible interference to any other station.

### **CONCLUSION**

For the reasons set forth above, CTSC respectfully requests that the Commission grant this petition and change Appendix B to reflect post-transition operation for KCET on Channel 28 with 107 kW ERP using the existing Andrew Model 35E4 antenna, Antenna ID No. 17555, at a HAAT of 926 m.

Respectfully submitted,

/s/

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Donald T. Stepka  
Arnold & Porter LLP  
555 Twelfth Street, N.W.  
Washington, DC 20004  
*Counsel for Community Television of Southern California*

October 26, 2007



## **Exhibit A**

**Engineering Statement of Hammett & Edison, Inc., Consulting Engineers**

**Station KCET-DT • N28/D59/FCD28 • Los Angeles, California  
MB Docket 87-268 Seventh R&O Petition for Reconsideration**

**Statement of Hammett & Edison, Inc., Consulting Engineers**

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained by Community Television of Southern California (CTSC), licensee of noncommercial TV Stations KCET, N28/D59/FCD28, Los Angeles, California, to prepare an engineering statement in support of a Petition for Reconsideration of the Seventh Report and Order (R&O) to MB Docket 87-268.

**Use of Existing NTSC Channel 28 Antenna Pattern and Height**

In the Seventh R&O, KCET was assigned an effective radiated power (ERP) of 107 kW, but based on a replication pattern derived from the KCET-DT, D59, transitional antenna pattern and height (1,812 m AMSL/913 HAAT). Because of the August 3, 2004, "Freeze" order, and as shown by the attached Figure 1A, if KCET were to operate its post-transition Final Channel Designation (FCD) 28 facilities using its existing Channel 28 transmitting antenna, an Andrew Model 35E4 directional antenna, it would have to limit its DTV ERP to a mere 800 *watts* so as not to extend its DTV Threshold contour. As shown by the attached Figure 1B, if KCET-DT were to so drastically reduce its DTV ERP, it would then suffer massive adjacent-channel interference from Station KFTR-DT, D29, Ontario, California. While the resulting KCET-DT FCD28 terrain-limited population would be almost twelve million persons (2000 Census), its interference-free population would then be less than one million persons. The reason for this tremendous power penalty is shown in Figure 2, which compares the FCD28 Appendix B replication pattern (FCC Pattern Number 70607) to the licensed KCET(TV), N28, pattern (FCC Pattern Number 17555); while the FCD28 Appendix B pattern has a null towards 15°T, this is a pattern maxima for the KCET N28 Andrew Model 35E4 antenna.

If, instead, the KCET-DT FCD28 facilities were to be based on use of the existing NTSC Channel 28 antenna and height (1,825 m AMSL/926 m HAAT), that is, the Andrew Model 35E4 directional antenna, and having a main beam ERP of 107 kW, the FCD28 DTV Threshold contour would then be comparable to the exiting KCET, N28, Grade B contour, as shown by the attached Figure 3. As shown by the attached Figure 4, an OET-69 interference study for KCET-DT, FCD28, and using the Appendix B FCD28 replication pattern, the predicted interference to KEYT-DT, FCD27, Santa Barbara, CA is 2.37%, and the predicted interference to KFTR-DT, FCD29, Ontario, CA, is 0.51%. As shown by the attached Figure 5, an OET-69 interference study for KCET-DT, FCD28, but using the Andrew Model 35E4 pattern and height, the predicted interference to KEYT-DT becomes 0.55%, and the predicted interference to KFTR-DT becomes 0.11%. Thus, the incremental interference to KEYT-DT would be *minus* 1.82%, and the incremental interference to KFTR-DT would be *minus* 0.40%. That is, the predicted interference to both stations would *decrease*, thus meeting the incremental interference limit of plus 0.1%.

**Station KCET-DT • N28/D59/FCD28 • Los Angeles, California  
MB Docket 87-268 Seventh R&O Petition for Reconsideration**

Using OET-69 methodology, the existing KCET, N28, land area and interference-free population is 13,476 square kilometers and 13,322,390 persons (2000 Census). For KCET-DT, FCD28, at 107 kW ERP using the Andrew 35E4 N28 antenna pattern and height, the land area and interference-free population would be 16,034 square kilometers and 13,908,173 persons (2000 Census).

**Seventh R&O Precedents**

The August 6, 2007, Seventh R&O, included the following appendices which modified a total of 211 stations:

<u>Appendix</u>	<u>Number of Stations</u>
D1, Granted Requests for Minor Adjustments	22
D2, Granted Requests for Changes to Certification Criteria that meet the interference criteria	129
D3, Granted Requests for Modified Coverage Area	30
D5, Granted Requests for Alternative Channel Assignments	13
D6, Requests for Changes to Appendix B Antenna Information	17

Yet, although the Commission granted modifications to 211 tentative channel designations (TCDs), it apparently did not consider KCET's request in its Seventh Further Notice of Proposed Rulemaking (Seventh FNPRM) comments to have its FCD based on its NTSC Channel 28 antenna pattern and height. This became clear only when the Office of Engineering and Technology (OET) posted on its web site\* data summaries for the FCD studies. The entry for KCET showed not the NTSC antenna HAAT of 926 m, but rather the D59 HAAT of 913 m. It can therefore be concluded that rather than studying the N28 antenna pattern and height as was requested in the engineering exhibit submitted with the KCET Seventh FNPRM comments, the D59 replication pattern and height were instead studied. This is highly significant, since towards KEYT-DT FCD27, the N28 pattern has 6.5 dB less power than the FCD28 Appendix B replication pattern.

**Summary**

In its comments to the Seventh FNPRM, KCET proposed use of its existing Andrew Model 35E4 Channel 28 NTSC antenna, but at a higher ERP of 190 kW. It appears that the Commission instead studied the KCET proposal based on the significantly different FCD28 Appendix B replication pattern. To correct this miscommunication, KCET now asks that the Commission modify the KCET-DT FCD28 facilities to be based on the analog channel 28 antenna pattern and height. Using the existing antenna and height and an ERP of 107 kW will replicate KCET's NTSC Service and will *decrease* the predicted interference to both KEYT-DT, FCD27, and to KFTR-DT, FCD29. Such action would

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\* See [http://www.fcc.gov/oet/dtv/dtv\\_apps.html](http://www.fcc.gov/oet/dtv/dtv_apps.html).

**Station KCET-DT • N28/D59/FCD28 • Los Angeles, California  
MB Docket 87-268 Seventh R&O Petition for Reconsideration**

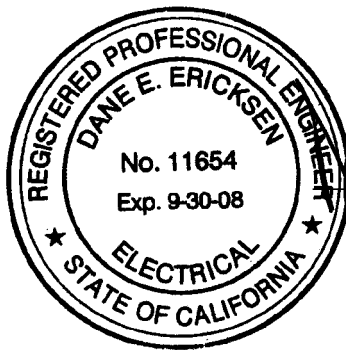
additionally ensure that KCET-DT would not receive debilitating interference from KFDR-DT, D29, Ontario, CA.

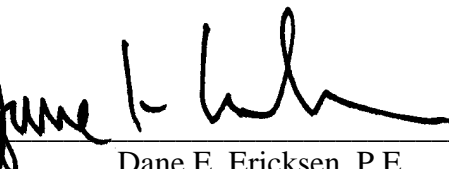
**List of Figures**

In carrying out these engineering studies, the following attached figures were prepared under my direct supervision:

1. FCD28 Appendix B DTV contours versus no-contour extension using the KCET, N28, Andrew Model 35E4 transmitting antenna and height
2. Comparison of the FCD28 Appendix B replication pattern and the KCET, N28, Andrew Model 35E4 pattern
3. Map showing KCET, N28, Grade B contour versus FCD28 DTV Threshold contour at 107 kW ERP, and using the existing Andrew Model 35E4 Channel 28 transmitting antenna
4. OET-69 interference study for KCET-DT, FCD28, at 107 kW ERP using the FCD28 Appendix B replication pattern and height
5. OET-69 interference study for KCET-DT, FCD28, at 107 kW ERP and using the existing Andrew Model 35E4 Channel 28 transmitting antenna.

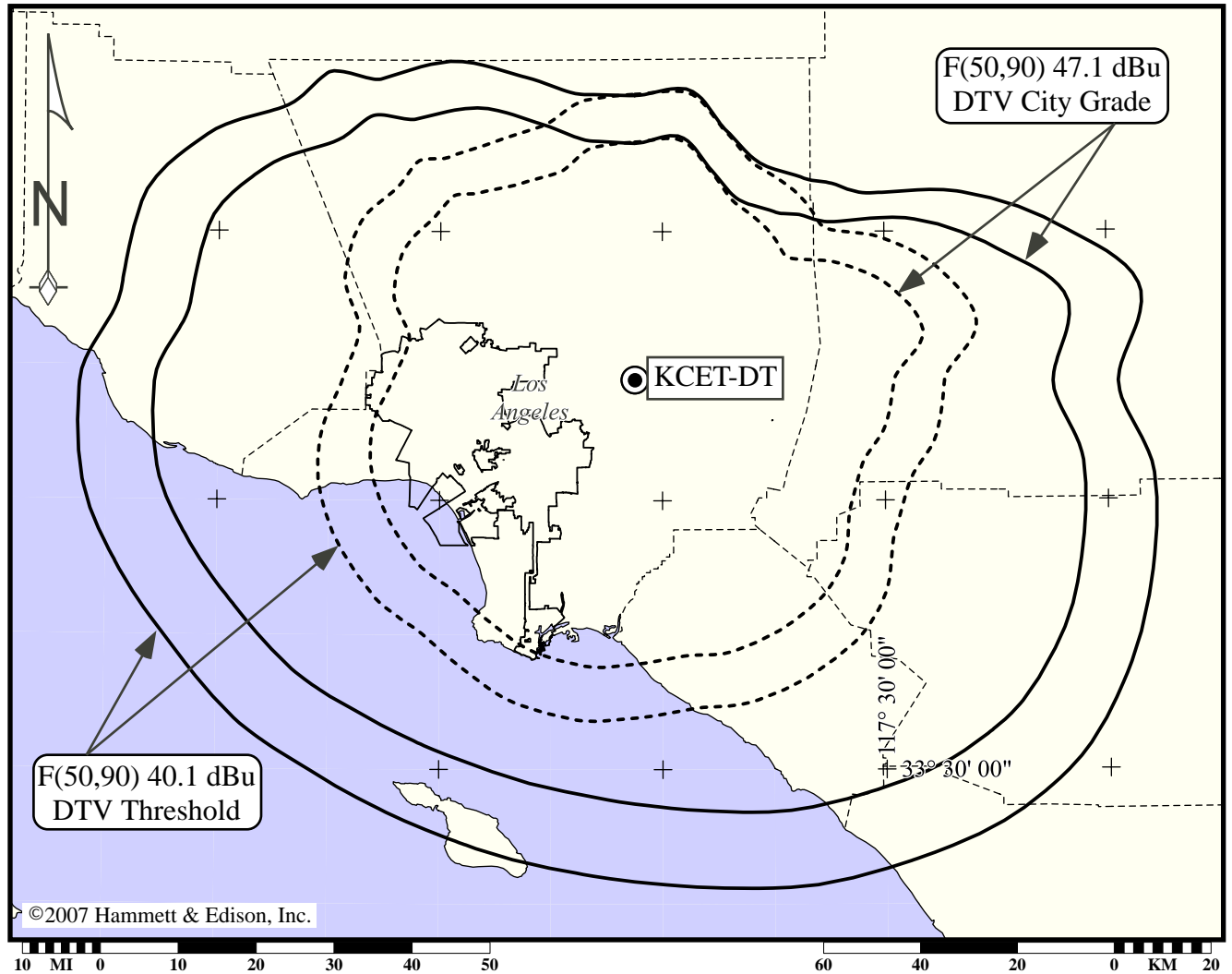
October 25, 2007



  
Dane E. Ericksen, P.E.

TV Station KCET • N28/D59/FCD28 • Los Angeles, California  
 MB docket 87-268 Seventh R&O Petition for Reconsideration

KCET-DT, FCD28 Appendix B (107 kW) DTV Contours  
 versus DTV Contours Using Existing KCET(TV), N28, Andrew Model 35E4  
 Antenna Pattern and Height (800 W ERP)



———— = FCD28, 107 kW  
 - - - - - = D28, N28 pattern & height, 800 W ERP

City Grade coverage of Los Angeles at 800 W DA would be  
 95.4% based on area, 97.9% based on population (2000 Census)

Lambert conformal conic map projection. Map data taken from Sectional Aeronautical Charts, published by the National Ocean Survey. Geographic coordinate marks shown at 30-minute increments. City limits shown taken from U.S. Census Bureau TIGER/Line 2000 data.



**HAMMETT & EDISON, INC.**  
 CONSULTING ENGINEERS  
 SAN FRANCISCO

071021.1  
 Figure 1A

**TV Station KCET • N28/D59/FCD28 • Los Angeles, California  
MB Docket 87-268 Seventh R&O Petition for Reconsideration**

**Post-Transition OET-69 Coverage Study for KCET-DT at 800 W ERP (DA)  
Based on the Andrew N28 HPLANE Azimuth Pattern and Height**

OET-69 Coverage Analysis, 2000 Census  
tvstudy v3.2.12

Post-transition study, in-core DTV and LPTV/Class A NTSC only

This interference study is based on 1.00 x 1.00 kilometer cells  
and terrain profiles with 10.0 points per kilometer.

Station record parameters:

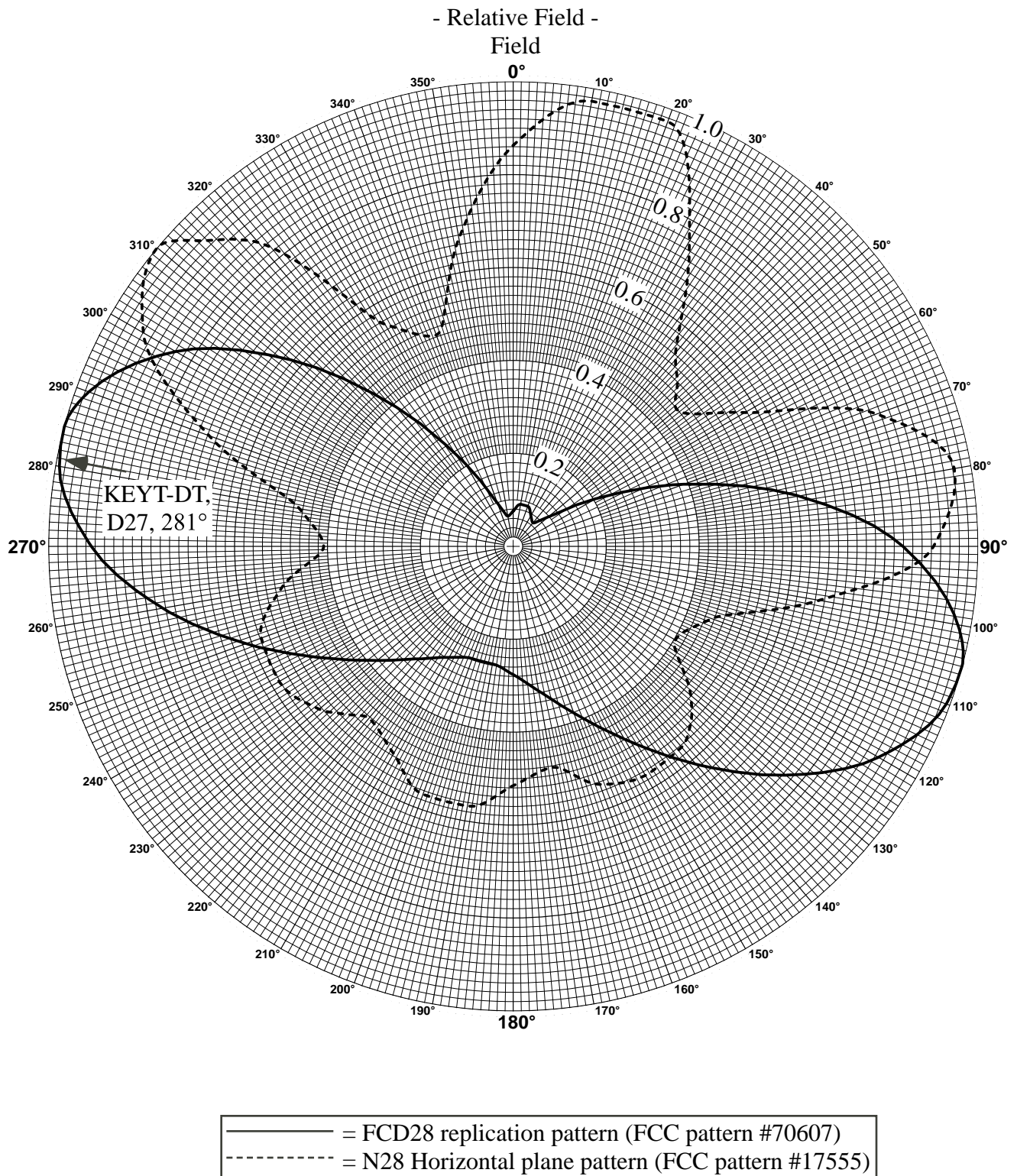
	--Modified-----	--Original-----
Station:	D28 KCET TCD	D28 KCET TCD
City:	LOS ANGELES, CA	LOS ANGELES, CA
Facility ID:	13058	13058
Coordinates:	N 34-13-26.0	N 34-13-26.0
	W 118-03-43.8	W 118-03-43.8
Height AMSL:	1825.5 m	1812.0 m
Maximum ERP:	0.800 kW	107 kW
Azimuth pattern:	kcetN28.17555az.pat	REP-REPLICATION
Orientation:	0.0	0.0
Elevation pattern:	OET-69 generic	OET-69 generic
Service level:	40.1 dBu	40.1 dBu

Interfering station	Total IX		Unique IX	
	Area,km2	Population	Area,km2	Population
D28 KMPH-TV TCD VISALIA, CA	0.0	0	0.0	0
D29 KFTR-TV TCD ONTARIO, CA	4512.3	10,967,356	4512.3	10,967,356
N27+A KNLA-LP CP LOS ANGELES, CA	0.0	0	0.0	0
N28+A K28FK LIC SAN LUIS OBISPO, CA	0.0	0	0.0	0
Service conditions	Area,km2	Population		
Noise-limited service	11336.4	12,710,787		
Terrain-limited service	8572.9	11,787,812		
Interference-free service	4060.6	820,456		
Longley-Rice errors	4028.1	760,124		

Note: The results of the OET-69 algorithm are dependent on the use of computer databases and complex software algorithms, which may vary between computer platforms and installations. Also, while Hammett & Edison, Inc. endeavors to follow official releases and established precedents on the matter, FCC policy on DTV analysis methods changes from time to time. Thus, the results of OET-69 interference and coverage studies are subject to change and may differ from FCC results.

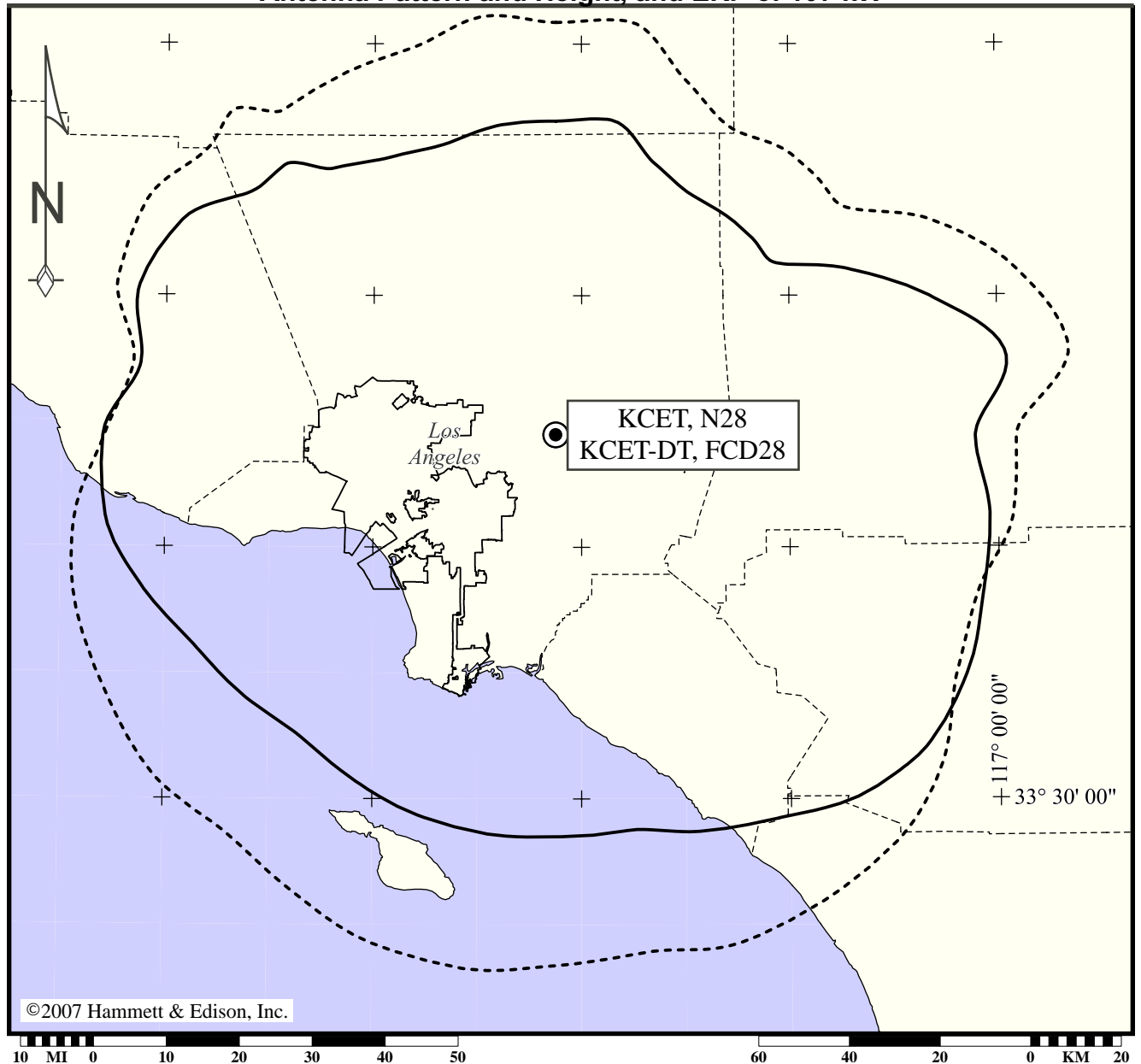
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KCET-DT FCD28 Replication Pattern versus  
Existing KCET, N28, Andrew Model 35E4 Antenna Pattern



TV Station KCET • N28/D59/FCD28 • Los Angeles, California  
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KCET(TV), N28, Grade B Contour versus  
KCET-DT, FCD28, DTV Threshold Contour  
Based on Existing Andrew Model 35E4  
Antenna Pattern and Height, and ERP of 107 kW



- = Dipole-adjusted F(50,50) 63.1 dBu Grade B, licensed KCET, 2,450 kW ERP (DA)
- - - = Dipole-adjusted F(50,90) 40.1 dBu DTV Threshold, 107 kW ERP (DA) using existing Andrew Model 35E4 N28 Antenna and Height

Lambert conformal conic map projection. Map data taken from Sectional Aeronautical Charts, published by the National Ocean Survey. Geographic coordinate marks shown at 30-minute increments. City limits shown taken from U.S. Census Bureau TIGER/Line 2000 data.



**HAMMETT & EDISON, INC.**  
CONSULTING ENGINEERS  
SAN FRANCISCO



**TV Station KCET • N28/D59/FCD28 • Los Angeles, California  
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**TCD OET-69 Interference Study for KCET-DT at 107 kW ERP (DA)  
Using the FCD28 Appendix B Replication Pattern and Height  
and Based on FCC OET-69 Software Using Default  
FCC Values of 2 km x 2 km Cells and 1 Point/km Terrain Extraction**

Percent allowed new interference: 0.100  
Percent allowed new interference to Class A: 0.100  
Census data selected 2000

Post Transition Data Base Selected  
/space/software/cdbs/tvdb.sff\_B  
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 10-24-2007 Time: 16:13:14

Record Selected for Analysis

KCET BFCET -20050815ABG LOS ANGELES CA US  
Channel 28 ERP 107. kW HAAT 00913 m RCAMSL 01812 m  
Latitude 034-13-26 Longitude 0118-03-43  
Status CP Zone 2 Border  
Dir Antenna Make CDB Model 00000000070604 Beam tilt Y Ref Azimuth 0.0  
Last update Cutoff date Docket  
Comments  
Applicant COMMUNITY TELEVISION OF SOUTHERN CAL

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	0.618	466.7	57.9
45.0	0.728	410.2	56.8
90.0	75.320	621.4	98.5
135.0	45.471	1422.4	116.7
180.0	7.000	1530.7	100.0
225.0	11.406	1461.6	103.4
270.0	84.216	1019.6	112.5
315.0	27.559	586.0	88.6

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

TV Station KCET • N28/D59/FCD28 • Los Angeles, California  
MB Docket 87-268 Seventh R&O Petition for Reconsideration

TCD OET-69 Interference Study for KCET-DT at 107 kW ERP (DA)  
Using the FCD28 Appendix B Replication Pattern and Height  
and Based on FCC OET-69 Software Using Default  
FCC Values of 2 km x 2 km Cells and 1 Point/km Terrain Extraction

Class A Evaluation Complete

No spacing violations found to other full service stations

LANDMOBILE SPACING VIOLATIONS FOUND

NONE

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quite zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is within the Mexican coordination distance  
Distance to border = 207.0km

Proposed station is OK toward AM broadcast stations

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Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN	
28	KCET	LOS ANGELES CA	BFCET	20050815ABG

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
27	KEYT-TV	SANTA BARBARA CA	177.1	CP	BDTV	-00000191
28	KMPH-TV	VISALIA CA	281.4	LIC	BLCDT	-20030204AGN
29	KFTR-TV	ONTARIO CA	0.5	CP	BMPCDT	-20021028ABV

%%%

Analysis of Interference to Affected Station 1

**TV Station KCET • N28/D59/FCD28 • Los Angeles, California  
MB Docket 87-268 Seventh R&O Petition for Reconsideration**

**TCD OET-69 Interference Study for KCET-DT at 107 kW ERP (DA)  
Using the FCD28 Appendix B Replication Pattern and Height  
and Based on FCC OET-69 Software Using Default  
FCC Values of 2 km x 2 km Cells and 1 Point/km Terrain Extraction**

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
27	KEYT-TV	SANTA BARBARA CA	BDTV	-00000191

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
27	KTSF	SAN FRANCISCO CA	415.8	CP MOD	BMPCDT	-20040727AEK
28	KCET	LOS ANGELES CA	177.1	CP	BFCRET	-20050815ABG

Total scenarios = 1

Result key: 1  
Scenario 1 Affected station 1  
Before Analysis

Results for: 27A CA SANTA BARBARA BDTV 00000191 CP  
HAAT 917.0 m, ATV ERP 699.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1917281	54331.1
not affected by terrain losses	1326978	42164.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	28	8.1
lost to ATV IX only	28	8.1
lost to all IX	28	8.1

Potential Interfering Stations Included in above Scenario 1

27A CA SAN FRANCISCO BMPCDT 20040727AEK CP

After Analysis

Results for: 27A CA SANTA BARBARA BDTV 00000191 CP  
HAAT 917.0 m, ATV ERP 699.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1917281	54331.1
not affected by terrain losses	1326978	42164.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	31448	100.9
lost to ATV IX only	31448	100.9
lost to all IX	31448	100.9

Potential Interfering Stations Included in above Scenario 1

27A CA SAN FRANCISCO BMPCDT 20040727AEK CP  
28A CA LOS ANGELES BFCRET 20050815ABG CP

The following station failed the de minimis interference criteria.

TV Station KCET • N28/D59/FCD28 • Los Angeles, California  
MB Docket 87-268 Seventh R&O Petition for Reconsideration

TCD OET-69 Interference Study for KCET-DT at 107 kW ERP (DA)  
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FCC Values of 2 km x 2 km Cells and 1 Point/km Terrain Extraction

28D CA LOS ANGELES BFCET 20050815ABG  
ERP 107.00 kW HAAT 913.0 m RCAMSL 1812.0 m  
Antenna CDB 00000000070604

Due to interference to the following station and scenario: 1

27D CA SANTA BARBARA BDTV 00000191  
ERP 699.00 kW HAAT 917.0 m RCAMSL 1265.0 m  
Antenna CDB 00000000074818

Percent Service lost without proposal: 0.0 to BDTV 00000191  
Percent Service lost with proposal: 2.4 to BDTV 00000191

Worst case new IX 2.3678% Scenario 1

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
28	KMPH-TV	VISALIA CA	BLCDT	-20030204AGN

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
28	KCET	LOS ANGELES CA	281.4	CP	BFCET	-20050815ABG

Proposal causes no interference

#####

Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
29	KFTR-TV	ONTARIO CA	BMPCDT	-20021028ABV

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
28	KCET	LOS ANGELES CA	0.5	CP	BFCET	-20050815ABG
29	KVCW	LAS VEGAS NV	341.4	LIC	BLCDT	-20070109AAW
30	KPBS	SAN DIEGO CA	199.7	LIC	BLEDT	-20011203CEP

Total scenarios = 1

**TV Station KCET • N28/D59/FCD28 • Los Angeles, California  
MB Docket 87-268 Seventh R&O Petition for Reconsideration**

**TCD OET-69 Interference Study for KCET-DT at 107 kW ERP (DA)  
Using the FCD28 Appendix B Replication Pattern and Height  
and Based on FCC OET-69 Software Using Default  
FCC Values of 2 km x 2 km Cells and 1 Point/km Terrain Extraction**

Result key: 2  
Scenario 1 Affected station 3  
Before Analysis

Results for: 29A CA ONTARIO BMPCDT 20021028ABV CP  
HAAT 937.0 m, ATV ERP 400.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	16227698	42848.9
not affected by terrain losses	15122763	33144.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	101310	200.3
lost to ATV IX only	101310	200.3
lost to all IX	101310	200.3

Potential Interfering Stations Included in above Scenario 1

30A CA SAN DIEGO BLEDT 20011203CEP LIC

After Analysis

Results for: 29A CA ONTARIO BMPCDT 20021028ABV CP  
HAAT 937.0 m, ATV ERP 400.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	16227698	42848.9
not affected by terrain losses	15122763	33144.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	178386	316.4
lost to ATV IX only	178386	316.4
lost to all IX	178386	316.4

Potential Interfering Stations Included in above Scenario 1

30A CA SAN DIEGO BLEDT 20011203CEP LIC  
28A CA LOS ANGELES BFCRCET 20050815ABG CP

The following station failed the de minimis interference criteria.

28D CA LOS ANGELES BFCRCET 20050815ABG  
ERP 107.00 kW HAAT 913.0 m RCAMSL 1812.0 m  
Antenna CDB 00000000070604

Due to interference to the following station and scenario: 1

29D CA ONTARIO BMPCDT 20021028ABV  
ERP 400.00 kW HAAT 937.0 m RCAMSL 1820.0 m  
Antenna CDB 00000000068117

Percent Service lost without proposal:	0.0	to BMPCDT	20021028ABV
Percent Service lost with proposal:	0.5	to BMPCDT	20021028ABV

**TV Station KCET • N28/D59/FCD28 • Los Angeles, California  
MB Docket 87-268 Seventh R&O Petition for Reconsideration**

**TCD OET-69 Interference Study for KCET-DT at 107 kW ERP (DA)  
Using the FCD28 Appendix B Replication Pattern and Height  
and Based on FCC OET-69 Software Using Default  
FCC Values of 2 km x 2 km Cells and 1 Point/km Terrain Extraction**

Worst case new IX      0.5131% Scenario      1

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Analysis of Interference to Affected Station      4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
28	KCET	LOS ANGELES CA	BFCRET	-20050815ABG

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
27	KEYT-TV	SANTA BARBARA CA	177.1	CP	BDTV	-00000191
28	KMPH-TV	VISALIA CA	281.4	LIC	BLCDT	-20030204AGN
29	KFTR-TV	ONTARIO CA	0.5	CP	BMPCDT	-20021028ABV

Total scenarios =    1

Result key:              3

Scenario              1    Affected station              4

Before Analysis

Results for: 28A CA LOS ANGELES              BFCRET      20050815ABG    CP  
HAAT 913.0 m, ATV ERP 107.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	15712511	29049.6
not affected by terrain losses	14600334	22587.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	294943	640.7
lost to ATV IX only	294943	640.7
lost to all IX	294943	640.7

Potential Interfering Stations Included in above Scenario      1

27A CA SANTA BARBARA	BDTV	00000191	CP
29A CA ONTARIO	BMPCDT	20021028ABV	CP

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**TV Station KCET • N28/D59/FCD28 • Los Angeles, California  
MB Docket 87-268 Seventh R&O Petition for Reconsideration**

**TCD OET-69 Interference Study for KCET-DT at 107 kW ERP (DA)  
Using the Existing Channel 28 Andrew Model 35E4 Transmitting Antenna  
Pattern and Height, and Based on FCC OET-69 Software Using Default  
FCC Values of 2 km x 2 km Cells and 1 Point/km Terrain Extraction**

Census data selected 2000

Post Transition Data Base Selected  
/space/software/cdbs/tvdb.sff\_B  
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 10-22-2007      Time: 10:51:51

Record Selected for Analysis

KCETDT    USERRECORD-01                      LOS ANGELES                      CA US  
Channel 28 ERP 107.    kW    HAAT 954. m RCAMSL 01826 m  
Latitude 034-13-26    Longitude 0118-03-43  
Status APP              Zone 2              Border  
Dir Antenna Make CDB    Model 00000000017555    Beam tilt N    Ref Azimuth 0.  
Last update                      Cutoff date                      Docket  
Comments  
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	79.690	480.7	90.3
45.0	26.750	424.2	79.9
90.0	87.636	635.4	100.3
135.0	27.729	1436.4	111.7
180.0	24.796	1544.7	113.3
225.0	24.654	1475.6	111.5
270.0	16.798	1033.6	97.4
315.0	92.743	600.0	99.4

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

TV Station KCET • N28/D59/FCD28 • Los Angeles, California  
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Pattern and Height, and Based on FCC OET-69 Software Using Default  
FCC Values of 2 km x 2 km Cells and 1 Point/km Terrain Extraction

SPACING VIOLATION FOUND BETWEEN STATION

KCETDT 28 LOS ANGELES CA USERRECORD01

and station

SHORT TO: KCET 28 LOS ANGELES CA BFCET 20050815ABG  
034-13-26 0118-03-43  
Req. separation 223.7 Actual separation 0.0 Short 223.7 km

LANDMOBILE SPACING VIOLATIONS FOUND

NONE

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quite zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is within the Mexican coordination distance  
Distance to border = 207.0km

Proposed station is OK toward AM broadcast stations

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Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
28	KCETDT	LOS ANGELES CA	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
27	KEYT-TV	SANTA BARBARA CA	177.1	CP	BDTV	-00000191
28	KMPH-TV	VISALIA CA	281.5	LIC	BLCDT	-20030204AGN
29	KFTR-TV	ONTARIO CA	0.5	CP	BMPCDT	-20021028ABV



**TV Station KCET • N28/D59/FCD28 • Los Angeles, California  
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Pattern and Height, and Based on FCC OET-69 Software Using Default  
FCC Values of 2 km x 2 km Cells and 1 Point/km Terrain Extraction**

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Analysis of Interference to Affected Station    1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
27	KEYT-TV	SANTA BARBARA CA	BDTV	-00000191

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
27	KTSF	SAN FRANCISCO CA	415.8	CP MOD	BMPCDT	-20040727AEK
28	KCETDT	LOS ANGELES CA	177.1	APP	USERRECORD-01	

Total scenarios =    1

Result key:            1  
Scenario            1   Affected station            1  
Before Analysis

Results for: 27A CA SANTA BARBARA            BDTV            00000191            CP  
HAAT 917.0 m, ATV ERP 699.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1917281	54331.1
not affected by terrain losses	1326978	42164.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	28	8.1
lost to ATV IX only	28	8.1
lost to all IX	28	8.1

Potential Interfering Stations Included in above Scenario    1

27A CA SAN FRANCISCO            BMPCDT            20040727AEK            CP

After Analysis

Results for: 27A CA SANTA BARBARA            BDTV            00000191            CP  
HAAT 917.0 m, ATV ERP 699.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1917281	54331.1
not affected by terrain losses	1326978	42164.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	7383	68.6
lost to ATV IX only	7383	68.6
lost to all IX	7383	68.6

Potential Interfering Stations Included in above Scenario    1

**TV Station KCET • N28/D59/FCD28 • Los Angeles, California**  
**MB Docket 87-268 Seventh R&O Petition for Reconsideration**

**TCD OET-69 Interference Study for KCET-DT at 107 kW ERP (DA)**  
**Using the Existing Channel 28 Andrew Model 35E4 Transmitting Antenna**  
**Pattern and Height, and Based on FCC OET-69 Software Using Default**  
**FCC Values of 2 km x 2 km Cells and 1 Point/km Terrain Extraction**

27A CA SAN FRANCISCO                      BMPCDT      20040727AEK      CP  
28A CA LOS ANGELES                      USERRECORD01                      APP

Percent new IX =      0.5543%

Worst case new IX      0.5543% Scenario      1

#####

Analysis of Interference to Affected Station      2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
28	KMPH-TV	VISALIA CA	BLCDT	-20030204AGN

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
28	KCETDT	LOS ANGELES CA	281.5	APP	USERRECORD-01
Proposal causes no interference					

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Analysis of Interference to Affected Station      3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
29	KFTR-TV	ONTARIO CA	BMPCDT	-20021028ABV

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
29	KVCW	LAS VEGAS NV	341.4	LIC	BLCDT -20070109AAW
30	KPBS	SAN DIEGO CA	199.7	LIC	BLEDT -20011203CEP
28	KCETDT	LOS ANGELES CA	0.5	APP	USERRECORD-01

Total scenarios =      1

Result key:                      2  
Scenario                      1      Affected station                      3  
Before Analysis

Results for: 29A CA ONTARIO                      BMPCDT      20021028ABV      CP  
                 HAAT 937.0 m, ATV ERP 400.0 kW

**TV Station KCET • N28/D59/FCD28 • Los Angeles, California  
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Pattern and Height, and Based on FCC OET-69 Software Using Default  
FCC Values of 2 km x 2 km Cells and 1 Point/km Terrain Extraction**

	POPULATION	AREA (sq km)
within Noise Limited Contour	16227698	42848.9
not affected by terrain losses	15122763	33144.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	101310	200.3
lost to ATV IX only	101310	200.3
lost to all IX	101310	200.3

Potential Interfering Stations Included in above Scenario 1

30A CA SAN DIEGO BLEDT 20011203CEP LIC

After Analysis

Results for: 29A CA ONTARIO BMPCDT 20021028ABV CP  
HAAT 937.0 m, ATV ERP 400.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	16227698	42848.9
not affected by terrain losses	15122763	33144.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	118080	272.4
lost to ATV IX only	118080	272.4
lost to all IX	118080	272.4

Potential Interfering Stations Included in above Scenario 1

30A CA SAN DIEGO BLEDT 20011203CEP LIC  
28A CA LOS ANGELES USERRECORD01 APP

Percent new IX = 0.1116%

Worst case new IX 0.1116% Scenario 1

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
28	KCETDT	LOS ANGELES CA	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
27	KEYT-TV	SANTA BARBARA CA	177.1	CP	BDTV -00000191
28	KMPH-TV	VISALIA CA	281.5	LIC	BLCDT -20030204AGN
29	KFTR-TV	ONTARIO CA	0.5	CP	BMPCDT -20021028ABV

**TV Station KCET • N28/D59/FCD28 • Los Angeles, California  
MB Docket 87-268 Seventh R&O Petition for Reconsideration**

**TCD OET-69 Interference Study for KCET-DT at 107 kW ERP (DA)  
Using the Existing Channel 28 Andrew Model 35E4 Transmitting Antenna  
Pattern and Height, and Based on FCC OET-69 Software Using Default  
FCC Values of 2 km x 2 km Cells and 1 Point/km Terrain Extraction**

Total scenarios = 1

Result key: 3  
Scenario 1 Affected station 4  
Before Analysis

Results for: 28A CA LOS ANGELES USERRECORD01 APP  
HAAT 954.0 m, ATV ERP 107.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	15321195	33447.3
not affected by terrain losses	14020515	23784.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	60643	324.1
lost to ATV IX only	60643	324.1
lost to all IX	60643	324.1

Potential Interfering Stations Included in above Scenario 1

27A CA SANTA BARBARA	BDTV	00000191	CP
28A CA VISALIA	BLCDT	20030204AGN	LIC
29A CA ONTARIO	BMPCDT	20021028ABV	CP

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED

## Certificate of Service

I, Cynthia T. Miller, do hereby certify that I have this 26th day of October, 2007, caused to be sent by first class mail, postage prepaid, the attached Petition for Reconsideration of Community Television of Southern California to:

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Dow, Lohnes & Albertson  
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/s/

Cynthia T. Miller

\* By first-class mail and e-mail.